## Process of controlled radical (co)polymerisation of (meth)acryl or vinyl monomers in the presence of Fe, Ru or Os complexes and so prepared (co) polymers

Patent number:

₹ EP0826698

**Publication date:** 

1998-03-04

Inventor:

SENNINGER THIERRY (FR); SANCHEZ LAURENT

(FR)

**Applicant:** 

ATOCHEM ELF SA (FR)

Classification:

- international:

C08F4/00

- european:

C08F4/00: C08F4/80

Application number: EP19970401441 19970620

Priority number(s): FR19960010634 19960830

Also published as:

JP10152513 (A)

FR2752845 (A1)

Cited documents:

US4145486 EP0265091 EP0511405

XP002028806

Report a data error here

## Abstract of EP0826698

A method for controlled radical (co)polymerisation of (meth)acrylic and/or vinyl monomers comprises (co) polymerisation in mass, solution, emulsion, or suspension at a temperature which can go as low as 0 degrees C. The method is carried out in the presence of a primer comprising at least one radical generator; and at least one catalyst consisting of metal complex of formula MAa(L)n (I), where M = Fe, Ru, or Os; A = halogen or pseudo-halogen; L = (chiral) ligand, selected from PRR'R", P(OR)(OR')(OR"), NRR'R", ORR', SRR', SeRR', AsRR'R", and SbRR'R"; R, R', R" = 1-14C (substituted) alkyl or (substituted) aromatic, at least two ligands being linked by one or more bivalent radicals; a = 1-3; and n = 1-3. The method also requires the absence of activators; systems such as 1-phenyethylchloride/RuCl2 - PPh3, and benzyl chloride/FeCl2 - (Et))3P being excluded in the polymerisation of styrene.

Data supplied from the esp@cenet database - Worldwide